

# **PROJECT REPORT ON**

**SURVIVAL DURATION CALCULATION**

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## CHAPTER -1

### ABSTRACT/CONCISE SUMMARY

**AIM/OBJECTIVE:-** To make Survival Duration calculation

**METHOD:-**

1. We will use Jupyter notebook or Google Colab.
2. In this project we have to make program to Calculate A person how much Year,Month,Day,Minutes,seconds survived from birth to current date.
3. In this project, We will use datetime library and Mathematical formula To calculate Years,Month,Weeks,Day,Hours,Min. And Sec.
4. After that We will execute the program and Find out output.

## CHAPTER -2

### INTRODUCTION

“Survival Duration calculation” simply means Calculation of Human being how much Years,Month,Days,Hours,Minutes survived from their birth date to current date This is called as “Duration”.

**Duration:-** duration refers to the length of time that an event, process, or action lasts. It is the amount of time something takes to occur, and it is often expressed in terms of hours, minutes, seconds, or other units of time. For example, the duration of a movie is the length of time it takes to watch the entire film.

So, In this project We have to make python program so that we can calculate duration from any birth date and we can calculate unlimited time once program is created.

If we calculate it by **pen and paper then it takes too much time and energy**,If we calculate it **by calculator** then it takes much time.If we make program then only we have to **input Birth date** and within a second everything is calculated like How much Years,Month,Days,Hours,Minutes survived by particular D.O.B. person from their birth date to current date

## CHAPTER - 3

### METHODOLOGY

**Software used:**

Jupyter Notebook or Google Colab

**Method:-**

**Step 1:-** Firstly,We imported datetime library.

**Step 2:-** Then, we used input() function to take input of birthdate and birthdate standard format is Year-month-day.

**Step 3:-** Then, we used datetime.now() function.This function will give us current date/today's date.

- We used strip time which means strptime is used to convert a string representing a date and time in a specific format into a datetime object.

**Step 4:-**Then we calculated difference between the current date and birth date that will give us age.And age will work as input to calculate

year\_survived,months\_,weeks\_survived,survived,days\_survived,hour\_survived,v,minutes\_survived,seconds\_survived.

**Step 5:- Then** ,We used Mathematical formula to calculate Survived Years,Survived Months,Survived Hours,Survived Minutes,Survived Seconds.

#### **FORMULAS:-**

```
years_survived = age.days // 365
months_survived = (age.days % 365) // 30
weeks_survived = age.days // 7
days_survived = age.days
hours_survived = age.days * 24 + age.seconds // 3600
minutes_survived = age.days * 24 * 60 + age.seconds // 60
seconds_survived = age.days * 24 * 60 * 60 + age.seconds
```

// is used for floor divisions

# operator is used to find remainder

**Age.days** means days from your Input birth date till current date

**Age.seconds** means seconds from your Input birth date till current date

**Step 5:- Then** ,We printed each and every variables by using print() function and using f string.

**Step 6:-** We executed the program in google colab by using Shift+enter.

### **CHAPTER - 4** **FUTURE SCOPE**

This project & program is valid till human calender Standard system and date & time Standard system doesn't end.**Currently and In future**,This project is used to calculate human survival duration and it may or may not have advancement.

### **CHAPTER - 5** **CONCLUSION**

The objective of making Survival Duration calculator is to Learn about python deeply with real life example.This Project will helps us to build & boost confidence.

**What we learned from this project:-**

1. Learned to Use print() function.
2. Learned to build Logic.
3. Learned to create variables.
4. Learned to store values in variables.
5. Learned date and time formulas.

### **CHAPTER - 6** **REFERENCES**

1. [https://www.w3schools.com/python/python\\_datetime.asp](https://www.w3schools.com/python/python_datetime.asp).
2. <https://docs.python.org/3/library/datetime.html>
3. <https://chat.openai.com/>